



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0054291
Effective Date: August 19, 2009
Expiration Date: August 18, 2014


AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I and Part II, as set forth herein.

Owner: IMTT-Virginia
Facility Name: IMTT-Virginia Richmond East
County: Henrico
Facility Location: 5500 Old Osborne Turnpike

The owner is authorized to discharge to the following receiving stream:

Outfalls: 001 and 002:
Stream: Unnamed Tributary to Almond Creek
River Basin: James (Lower)
River Subbasin: N/A
Section: 1a
Class: III
Special Standards: None



Water Permit Manager, Piedmont Regional Office

8/19/09

Date

A. Limitations and Monitoring Requirements

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall number 001, oil/water separator.

a. This discharge shall be monitored by the permittee as specified below:

| EFFLUENT CHARACTERISTICS | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|-----------------------|----------------|---------|---------|-------------------------|-------------|
| | MONTHLY AVERAGE | WEEKLY AVERAGE | MINIMUM | MAXIMUM | FREQUENCY | SAMPLE TYPE |
| Flow (MGD) ⁽⁴⁾ | NA | NA | NA | NL | 1/month | Estimate |
| TPH (mg/L) ⁽²⁾⁽⁴⁾ | NA | NA | NA | 15 | 1/month | Grab |
| pH (standard units) ⁽⁴⁾ | NA | NA | 6.0 | 9.0 | 1/month | Grab |
| Total Organic Carbon (mg/L) ⁽¹⁾⁽⁴⁾ | NA | NA | NA | 110 | 1/month | Grab |
| Dissolved Copper (µg/L) | NL | NA | NA | NL | 1/ 6 months | Grab |
| Hardness (mg/L) ⁽³⁾ | NL | NA | NL | NA | 1/ 6 months | Grab |

"NL" means no limitation is established. Monitoring and reporting, however, are required.

"NA" means not applicable.

(1) These limitations are expressed in two significant digits.

(2) TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B and 8270D. If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

(3) Sampling for effluent Hardness shall take place during the same sampling event as Dissolved Metals sampling.

(4) Monthly samples shall be taken when a discharge occurs. See Part I.B.10 for additional requirements.

b. Effluent samples shall be taken at Outfall 001

c. See Part I.B.5 for discharge of hydrostatic test waters

d. The effluent shall be free of sheens. There shall be no discharge of floating solids or visible foam in other than trace amounts.

e. There shall be no discharge of tank bottom waters

f. See Part I.B.7 for WET Monitoring Requirements

g. See Part I.B.4 for quantification levels and reporting instructions.

A. Limitations and Monitoring Requirements

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall number 002, tank farm.

a. This discharge shall be monitored by the permittee as specified below:

| EFFLUENT CHARACTERISTICS | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|-----------------------|----------------|---------|---------|-------------------------|-------------|
| | MONTHLY AVERAGE | WEEKLY AVERAGE | MINIMUM | MAXIMUM | FREQUENCY | SAMPLE TYPE |
| Flow (MGD) ⁽⁴⁾ | NA | NA | NA | NL | 1/month | Estimate |
| TPH (mg/L) ⁽²⁾⁽⁴⁾ | NA | NA | NA | 15 | 1/month | Grab |
| pH (standard units) ⁽⁴⁾ | NA | NA | 6.0 | 9.0 | 1/month | Grab |
| Total Organic Carbon (mg/L) ⁽¹⁾⁽⁴⁾ | NA | NA | NA | 110 | 1/month | Grab |
| Dissolved Copper (µg/L) | NL | NA | NA | NL | 1/ 6 Months | Grab |
| Dissolved Zinc (µg/L) | NL | NA | NA | NL | 1/ 6 Months | Grab |
| Hardness (mg/L) ⁽³⁾ | NL | NA | NL | NA | 1/ 6 months | Grab |

"NL" means no limitation is established. Monitoring and reporting, however, are required.

"NA" means not applicable.

(1) These limitations are expressed in two significant digits.

(2) TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B and 8270D. If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

(3) Sampling for effluent Hardness shall take place during the same sampling event as Dissolved Metals sampling.

(4) Monthly samples shall be taken when a discharge occurs. See Part I.B.10 for additional requirements.

b. Effluent samples shall be taken at Outfall 002

c. See Part I.B.5 for discharge of hydrostatic test waters

d. The effluent shall be free of sheens. There shall be no discharge of floating solids or visible foam in other than trace amounts.

e. There shall be no discharge of tank bottom waters.

f. See Part I.B.7 for WET Monitoring Requirements

g. See Part I.B.4 for quantification levels and reporting instructions.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 08/21/2009

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Piedmont Regional Office
4949-A Cox Road

Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME IMTT Virginia - Richmond East
ADDRESS 5500 Old Osbourne Tpk
Richmond VA 23231

FACILITY
LOCATION

| | | | | | | | |
|-------------------|----|------------------|--|------|----|-----|--|
| VA0054291 | | 001 | | | | | |
| PERMIT NUMBER | | DISCHARGE NUMBER | | | | | |
| MONITORING PERIOD | | | | | | | |
| YEAR | MO | DAY | | YEAR | MO | DAY | |
| | | | | | | | |

FROM

TO

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|---------|---------------------|---------|-------|--------------------------|---------|---------|-------|------------|-----------------------------|----------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ***** | ***** | ***** | | | | |
| | REQRMNT | NL | NL | MGD | ***** | ***** | ***** | | | 1 / M | EST |
| 002 PH | REPORTD | ***** | ***** | | | ***** | | | | | |
| | REQRMNT | ***** | ***** | | 6.0 | ***** | 9.0 | SU | | 1 / M | GRAB |
| 059 CARBON, TOTAL ORGANIC | REPORTD | ***** | ***** | | ***** | ***** | | | | | |
| | REQRMNT | ***** | ***** | | ***** | ***** | 110 | MG/L | | 1 / M | GRAB |
| 137 HARDNESS, TOTAL (AS CACO3) | REPORTD | ***** | ***** | | | | | | | | |
| | REQRMNT | ***** | ***** | | NL | NL | NA | MG/L | | 1 / 6M | GRAB |
| 257 PETROLEUM HYDROCARBONS, TOTAL RECOV | REPORTD | ***** | ***** | | ***** | ***** | | | | | |
| | REQRMNT | ***** | ***** | | ***** | ***** | 15 | MG/L | | 1 / M | GRAB |
| 442 COPPER, DISSOLVED (UG/L AS CU) | REPORTD | ***** | ***** | | | | | | | | |
| | REQRMNT | ***** | ***** | | NA | NL | NL | UG/L | | 1 / 6M | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ***** | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ***** | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) | OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|--|----------------------|------------------|------------------|---|-----------|-----------------|------|-----|-----|
| | | | | | | | | | |
| I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | | | | TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| | | | | PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | | | | | |
| | | | | TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 08/21/2009

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Piedmont Regional Office
4949-A Cox Road

Glen Allen VA 23060

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.**

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME IMTT Virginia - Richmond East

ADDRESS 5500 Old Osbourne Tpk
Richmond VA 23231

FACILITY
LOCATION

| | | | | | | | |
|-------------------|----|------------------|--|------|----|-----|--|
| VA0054291 | | 002 | | | | | |
| PERMIT NUMBER | | DISCHARGE NUMBER | | | | | |
| MONITORING PERIOD | | | | | | | |
| YEAR | MO | DAY | | YEAR | MO | DAY | |
| | | | | | | | |

FROM

TO

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|---------|---------------------|---------|-------|--------------------------|---------|---------|-------|------------|-----------------------------|----------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ***** | ***** | ***** | | | | |
| | REQRMNT | NL | NL | MGD | ***** | ***** | ***** | | | 1 / M | EST |
| 002 PH | REPORTD | ***** | ***** | | | ***** | | | | | |
| | REQRMNT | ***** | ***** | | 6.0 | ***** | 9.0 | SU | | 1 / M | GRAB |
| 059 CARBON, TOTAL ORGANIC | REPORTD | ***** | ***** | | ***** | ***** | | | | | |
| | REQRMNT | ***** | ***** | | ***** | ***** | 110 | MG/L | | 1 / M | GRAB |
| 137 HARDNESS, TOTAL (AS CACO3) | REPORTD | ***** | ***** | | | | | | | | |
| | REQRMNT | ***** | ***** | | NL | NL | NA | MG/L | | 1 / 6M | GRAB |
| 257 PETROLEUM HYDROCARBONS, TOTAL RECOVER | REPORTD | ***** | ***** | | ***** | ***** | | | | | |
| | REQRMNT | ***** | ***** | | ***** | ***** | 15 | MG/L | | 1 / M | GRAB |
| 442 COPPER, DISSOLVED (UG/L AS CU) | REPORTD | ***** | ***** | | | | | | | | |
| | REQRMNT | ***** | ***** | | NA | NL | NL | UG/L | | 1 / 6M | GRAB |
| 807 ZINC, DISSOLVED (AS ZN) | REPORTD | ***** | ***** | | | | | | | | |
| | REQRMNT | ***** | ***** | | NA | NL | NL | UG/L | | 1 / 6M | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ***** | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) | OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|--|----------------------|------------------|------------------|---|-----------|-----------------|------|-----|-----|
| | | | | | | | | | |
| <div>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</div> | | | | TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| | | | | PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | | | | | |
| | | | | TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.41(l)(4)(i)). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED \$10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED \$25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

- 1. Complete this form in permanent ink or indelible pencil.**
- 2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".**
- 3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.**
- 4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.**
- 5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".**
- 6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".**
- 7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".**
- 8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".**
- 9. Enter additional required data or comments in the space marked "additional permit requirements or comments".**
- 10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".**
- 11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.**
- 12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.**
- 13. You are required to sample at the frequency and type indicated in your permit.**
- 14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.**
- 15. You are required to retain a copy of the report for your records.**
- 16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.**
- 17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.**

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS**1. Notification Levels**

The permittee shall notify the Department as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1.0 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1.0 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.

2. Operation and Maintenance Manual Requirement

The permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ Piedmont Regional Office in writing within 90 days of the effective date of this permit whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ Piedmont Regional Office within 90 days of the effective date of this permit or with the above required notification. The permittee will maintain an accurate, approved operation and maintenance manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works in accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- b. Discussion of Best Management Practices, if applicable;
- c. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
- d. A plan for the management and/or disposal of waste solids and residues;
- e. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.B.3 that will prevent these materials from reaching state waters; and
- f. Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

3. Materials Handling/Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Compliance Reporting

The maximum quantification levels (QL) shall be as follows:

| <u>Effluent Characteristic</u> | <u>Quantification Level</u> |
|--------------------------------|-----------------------------|
| TPH | 5.0 mg/L |

Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in a. above shall be determined as follows: All concentration data below the QL listed in a. above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the concentration data and flow data for each sample day to determine the daily quantity and report the average of the calculated daily quantities.

Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in a. above shall be determined as follows: All concentration data below the QL listed in a. above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the daily average concentrations and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities.

Single Datum -- Any single datum required shall be reported as "<QL" if it is less than the QL in section a. above. Otherwise the numerical value shall be reported.

Significant Digits -- The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

5. Hydrostatic Testing

The permittee shall obtain approval from the DEQ Regional Office forty-eight (48) hours in advance of any discharge resulting from hydrostatic testing. The conditions of approval will be contingent on the volume and duration of the proposed discharge, and the nature of the residual product. Every discharge of hydrostatic testing waters shall be monitored and limited as specified below. Sampling will be required within the first thirty (30) minutes of discharge

by grab sample. Report results with the DMR for the month in which sampling and hydrostatic testing occurred. The hydrostatic test water sample shall be taken prior to combining with any other waters.

During the periods that hydrostatic pressure testing water is being discharged, flow shall be estimated once per discharge day (1/D-Day). TPH, Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene, Total Recoverable Lead, pH, and TRC limitations, as follows, shall be effective, and pH shall be monitored once per day. These limitations and monitoring requirements shall be effective only during the discharge of hydrostatic pressure testing water. The effluent shall be free of sheens and odors. There shall be no discharge of foam or floating solids in other than trace amounts. See Part I.B.4 for reporting instructions.

Such discharges shall be monitored and limited as follows:

| <u>Parameter</u> | <u>Discharge Maximum Limitation</u> | <u>Maximum Quantification Level</u> ^{††} |
|---|-------------------------------------|---|
| TPH ⁽¹⁾ | 15 mg/L | 5.0 mg/L |
| Benzene ⁽²⁾ | 50 µg/L | 10 µg/L |
| Toluene ⁽²⁾ | 175 µg/L | 10 µg/L |
| Ethylbenzene ⁽²⁾ | 320 µg/L | 10 µg/L |
| Total Xylenes ⁽²⁾ | 33 µg/L | 6.0 µg/L |
| Naphthalene ⁽³⁾ | 10 µg/L | ---- |
| Total Recoverable Lead ⁽⁴⁾ | 20 µg/L | 10 µg/L |
| Total Residual Chlorine | 0.011 mg/L | 0.10 mg/L |
| Total Organic Carbon [†] | NL | 5.0 mg/L |
| Total Suspended Solids [†] | NL | 1 mg/L |
| pH ⁽⁵⁾ | 6.0 SU - 9.0 SU | ---- |
| MTBE [†] | NL | 100 µg/L |
| Ethanol ^{(6) †} | NL | 100 µg/L |
| Ethylene Dibromide (EDB) ^{(4) †} | NL | 5.0 µg/L |
| 1,2-Dichloroethane ^{(4) †} | NL | 100 µg/L |
| Hardness [†] | NL | 0.1 mg/L |

Footnotes:

- (1) TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B and 8270D (2007). If the combination of Methods 8260B and 8270C is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.
 - (2) Benzene, Toluene, Ethylbenzene, Total Xylenes and MTBE shall be analyzed according to a current and appropriate EPA Wastewater Method 602 (40 CFR Part 136, 2007) or EPA SW 846 Method 8021B (1996).
 - (3) Naphthalene shall be analyzed by a current and appropriate EPA Wastewater Method from 40 CFR Part 136 (2007) or a current and appropriate EPA SW 846 Method.
 - (4) Monitoring for this parameter is required only when residual product has the potential to contain leaded fuel. Lead shall be analyzed according to a current and appropriate EPA Wastewater Method (40 CFR Part 136, 2007) or EPA SW 846 Method 9040C. 1,2 Dichloroethane and EDB shall be analyzed by a current and appropriate EPA SW 846 Method or EPA Wastewater Method from 40 CFR Part 136 (2007).
 - (5) This limitation is expressed as the range between an instantaneous minimum of 6.0 SU and an instantaneous maximum of 9.0 SU.
 - (6) Monitoring for ethanol is only required when residual product has the potential to contain gasoline containing greater than 10% ethanol. Ethanol shall be analyzed according to EPA SW 846 Method 8015C or EPA SW 846 Method 8260B.
- † “NL” means no limitation is established. Monitoring and reporting, however, are required.
- †† Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

6. Oil Storage Ground Water Monitoring Reopener

As this facility currently manages ground water in accordance with 9 VAC 25-91-10 et seq., the Facility and Aboveground Storage Tank Regulation, this permit does not presently impose ground water monitoring requirements. However, this permit may be modified or alternately revoked and reissued to include ground water monitoring not required by this regulation.

7. Whole Effluent Toxicity (WET) Monitoring:

- a. The permittee shall collect composite samples of effluent from Outfall 001 and Outfall 002 for biological testing. The acute multi-dilution NOAEC tests to use are:

48-Hour Static Acute test using *Ceriodaphnia dubia*

48-Hour Static Acute test using *Pimephales promelas*

These acute tests are to be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC (No Observed Adverse Effect Concentration), as determined by hypothesis testing, shall be submitted with the reported test results. The LC₅₀ should also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

The permittee may provide additional samples to address data variability during the period of data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

- b. Each composite sample for Outfall 001 and Outfall 002 shall consist of grab samples collected hourly during the period of discharge or, during the initial 24 hours of discharge, should the duration of the discharge exceed 24 hours. Effluent sampling shall begin as soon as possible following the initiation of the discharge. Sampling and testing should be performed on a minimum of **4 discharge events** from the outfalls, with at least 30 days between discharge events.
- c. The permittee shall include with the results of the biological tests performed with a particular sample:
 - (a) An estimate of the total volume discharged through Outfall 001 and through Outfall 002 and the duration of each discharge.
 - (b) The time at which the discharge was initiated.
 - (c) The time at which sampling was initiated.
- d. The test data will be evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. may be discontinued.
- e. The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

8. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

9. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

10. Monthly Sampling Requirements

Monthly monitoring for Flow, TPH, pH, and TOC as expressed in Part I.A.1.a. and Part I.A.2.a of this permit shall only apply to those events in which a discharge occurs at the facility. The permittee shall report the resulting testing data as specified in Part I.B.4 of this permit on the monthly DMR. The DMR's shall be submitted to the DEQ Piedmont Regional Office by the 10th day of the subsequent month in which the discharge occurred. For months in which no discharge occurs, the permittee shall continue to submit the required monthly DMR with the statement "No Discharge" indicated within reporting sheet.